

PARAMETER	<u>ECL</u>				
	LO STD CONC (ug/l)	WATER ^a (ug/l)	SOIL ^b (mg/kg)	LO STD CONC (DRINKING WATER ONLY) (ug/l)	DRINKING WATER ^c (ug/l)
Bromomethane_____	5.0	5.0	0.6	0.5	0.5
Vinyl chloride_____	5.0	5.0	0.6	0.5	0.5
Chloroethane_____	5.0	5.0	0.6	0.5	0.5
Methylene chloride_____	5.0	5.0	0.6	0.5	0.5
Trichlorofluoromethane_____	5.0	5.0	0.6	0.5	0.5
1,1-Dichloroethene_____	5.0	5.0	0.6	0.5	0.5
1,1-Dichloroethane_____	5.0	5.0	0.6	0.5	0.5
trans 1,2-Dichloroethene_____	5.0	5.0	0.6	0.5	0.5
Chloroform_____	5.0	5.0	0.6	0.5	0.5
1,2-Dichloroethane_____	5.0	5.0	0.6	0.5	0.5
1,1,1-Trichloroethane_____	5.0	5.0	0.6	0.5	0.5
Carbon tetrachloride_____	5.0	5.0	0.6	0.5	0.5
Bromodichloromethane_____	5.0	5.0	0.6	0.5	0.5
1,2-Dichloropropane_____	5.0	5.0	0.6	0.5	0.5
cis-1,3-Dichloropropene_____	5.0	5.0	0.6	0.5	0.5
Trichloroethylene_____	5.0	5.0	0.6	0.5	0.5
Dibromo-chloromethane_____	5.0	5.0	0.6	0.5	0.5
1,1,2-Trichloroethane_____	5.0	5.0	0.6	0.5	0.5
trans-1,3-Dichloropropene_____	5.0	5.0	0.6	0.5	0.5
1,1,2,2-Tetrachloroethane_____	5.0	5.0	0.6	0.5	0.5
Tetrachloroethylene_____	5.0	5.0	0.6	0.5	0.5
Chlorobenzene_____	5.0	5.0	0.6	0.5	0.5
Benzene_____	5.0	5.0	0.6	0.5	0.5
1,2-Dichlorobenzene_____	5.0	5.0	0.6	0.5	0.5
1,3-Dichlorobenzene_____	5.0	5.0	0.6	0.5	0.5
1,4-Dichlorobenzene_____	5.0	5.0	0.6	0.5	0.5
Ethylbenzene_____	5.0	5.0	0.6	0.5	0.5
Toluene_____	5.0	5.0	0.6	0.5	0.5
Xylenes_____	5.0	5.0	0.6	0.5	0.5
Bromochloromethane_____	5.0	5.0	0.6	0.5	0.5
Bromoform_____	5.0	5.0	0.6	0.5	0.5
4-Chlorotoluene_____	5.0	5.0	0.6	0.5	0.5
1,2-Dibromo-3-chloropropane_____	5.0	5.0	0.6	0.5	0.5
1,2-dibromomethane_____	5.0	5.0	0.6	0.5	0.5
Dibromomethane_____	5.0	5.0	0.6	0.5	0.5
Dichlorodifluoromethane_____	5.0	5.0	0.6	0.5	0.5
cis-1,2-Dichloroethene_____	5.0	5.0	0.6	0.5	0.5
1,3-Dichloro-2-propanol_____	5.0	5.0	0.6	0.5	0.5
Hexachlorobutadiene_____	5.0	5.0	0.6	0.5	0.5
Naphthalene_____	5.0	5.0	0.6	0.5	0.5
Styrene_____	5.0	5.0	0.6	0.5	0.5
1,2,4-Trichlorobenzene_____	5.0	5.0	0.6	0.5	0.5
1,2,3-Trichloropropane_____	5.0	5.0	0.6	0.5	0.5

Table 1. Routine Quantitation Limits for Analysis of Aromatic and Halogenated Volatile Organics (EPA 8021B).

a Direct Purge Dilution Factor (**DF**) = 1 (Water)b Extraction Method: EPA 5030 4 g → 10 mL = (1) 100 uL of (1) → 5 mL ∴ Dilution Factor (**DF**) = 125 (Soil)c Direct Purge Dilution Factor (**DF**) = 1 (Drinking Water)

PARAMETER	<u>ECL</u>						DRINKING WATER ^f (ug/l)
	LO STD CONC (ug/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e	
Delta-BHC _____	10	10	0.10	0.10	0.033	.....	0.020
A-BHC _____	10	10	0.10	0.10	0.033	.....	0.020
B-BHC _____	10	10	0.10	0.10	0.033	.....	0.020
Lindane _____	10	10	0.10	0.10	0.033	.....	0.020
PCNB _____	10	10	0.10	0.10	0.033	.....	0.020
Heptachlor _____	10	10	0.10	0.10	0.033	.....	0.020
Aldrin _____	10	10	0.10	0.10	0.033	.....	0.020
Heptachlor epoxide _____	10	10	0.10	0.10	0.033	.....	0.020
A-Chlordane _____	10	10	0.10	0.10	0.033	.....	0.020
2,4'-DDE _____	10	10	0.10	0.10	0.033	.....	0.020
Endosulfan I _____	10	10	0.10	0.10	0.033	.....	0.020
gamma-Chlordane _____	10	10	0.10	0.10	0.033	.....	0.020
4,4'-DDE _____	10	10	0.10	0.10	0.033	.....	0.020
Endosulfan sulfate _____	10	10	0.10	0.10	0.033	.....	0.020
Endrin aldehyde _____	10	10	0.10	0.10	0.033	.....	0.020
Dieldrin _____	10	10	0.10	0.10	0.033	.....	0.020
2,4'-DDD _____	10	10	0.10	0.10	0.033	.....	0.020
Endrin _____	10	10	0.10	0.10	0.033	.....	0.020
Endosulfan II _____	10	10	0.10	0.10	0.033	.....	0.020
4,4'-DDD _____	10	10	0.10	0.10	0.033	.....	0.020
2,4'-DDT _____	10	10	0.10	0.10	0.033	.....	0.020
4,4'-DDT _____	10	10	0.10	0.10	0.033	.....	0.020
4,4'-Methoxychlor _____	40	40	0.40	0.40	0.13	.....	0.080
Tedion _____	20	20	0.20	0.20	0.067	.....	0.040
Mirex _____	10	10	0.10	0.10	0.033	.....	0.020
Toxaphene _____	250	250	2.5	2.5	0.87	.....	0.50
PCB 1016 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1221 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1232 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1242 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1248 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1254 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1260 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1262 _____	200	200	2.0	2.0	0.2	.....	0.20
Toxaphene _____	250	250	2.5	2.5	0.87	.....	0.50
PCB 1016 _____	200	200	2.0	2.0	0.2	.....	0.20
PCB 1221 _____	200	200	2.0	2.0	0.2	.....	0.20

Table 2a. Quantitation Limits for Analysis of Chlorinated Pesticides (EPA 8081/8082).

a 100 mL → 100 mL ∴ DF = 1.0 (Routine Water)

b 10 g → 100 mL ∴ DF = 10.0 (Routine Soil)

c 1000 mL → 10 mL ∴ DF = 0.01 (Low Level Water)

d 30 g → 100 mL ∴ DF = 3.33 (Low Level Soil)

e Dependent on Matrix

f 1000 mL → 2 mL ∴ DF = 0.002 (Drinking Water)

PARAMETER	ECL-SC					
	LO STD CONC (ug/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (ug/kg)	HI WATER&SOIL ^e
Delta-BHC _____	5.0	0.25	0.050	0.050	5.0	.....
a-BHC _____	5.0	0.25	0.050	0.050	5.0	.....
b-BHC _____	5.0	0.25	0.050	0.050	5.0	.....
Lindane _____	5.0	0.25	0.050	0.050	5.0	.....
PCNB _____	.....	.....	.....	.....	.....	.....
Heptachlor _____	5.0	0.25	0.050	0.050	5.0	.....
Aldrin _____	5.0	0.25	0.050	0.050	5.0	.....
Heptachlor epoxide _____	5.0	0.25	0.050	0.050	5.0	.....
a-Chlordane _____	.....	.....	.....	.....	.....	.....
o,p'-DDE _____	.....	.....	.....	.....	.....	.....
Endosulfan I _____	5.0	0.25	0.050	0.050	5.0	.....
gamma-Chlordane _____	.....	.....	.....	.....	.....	.....
p,p'-DDE _____	5.0	0.25	0.050	0.050	5.0	.....
Endosulfan sulfate _____	.....	.....	.....	.....	.....	.....
Endrin aldehyde _____	.....	.....	.....	.....	.....	.....
Dieldrin _____	5.0	0.25	0.050	0.050	5.0	.....
o,p'-DDD _____	.....	.....	.....	.....	.....	.....
Endrin _____	5.0	0.25	0.050	0.050	5.0	.....
Endosulfan II _____	5.0	0.25	0.050	0.050	5.0	.....
p,p'-DDD _____	5.0	0.25	0.050	0.050	5.0	.....
o,p'-DDT _____	.....	.....	.....	.....	.....	.....
p,p'-DDT _____	5.0	0.25	0.050	0.050	5.0	.....
p,p'-Methoxychlor _____	5.0	0.25	0.050	0.050	5.0	.....
Tedion _____	.....	.....	.....	.....	.....	.....
Mirex _____	.....	.....	.....	.....	.....	.....
Toxaphene _____	250	12	2.5	2.5	250	.....
PCB 1016 _____	500	25	0.50	5.0	500	.....
PCB 1221 _____	500	25	0.50	5.0	500	.....
PCB 1232 _____	500	25	0.50	5.0	500	.....
PCB 1242 _____	500	25	0.50	5.0	500	.....
PCB 1248 _____	500	25	0.50	5.0	500	.....
PCB 1254 _____	500	25	0.50	5.0	500	.....
PCB 1260 _____	500	25	0.50	5.0	500	.....
PCB 1262 _____	500	25	0.50	5.0	500	.....

Table 2b. Quantitation Limits for Analysis of Chlorinated Pesticides (EPA 8080/8081).

a 200 mL → 10 mL ∴ DF = 0.05 (Routine Water)

b Chlorinated Pesticides 10 g → 10 mL = (1)

1mL of (1) → 10 mL ∴ DF = 10.0 (Routine Soil)

PCBs 10 g → 10 mL ∴ DF = 1.0 (Routine Soil)

c 1000 mL → 10 mL ∴ DF = 0.01 (Low Level Water)

d 10 g → 10 mL ∴ DF = 1.0 (Low Level Soil)

e Dependent on Matrix

PARAMETER	ECL						
	LO STD CONC (mg/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e	DRINKING WATER ^f (ug/l)
Dichlorvos (DDVP) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Mevinphos (Phosdrin) _____	0.50	0.50	5.0	5.0	1.66	.....	1.0
Sulfotep (Bladafume) _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Thimet (Phorate) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Diäzinon _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Disyston (Disulfoton) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Parathion Methyl _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Ronnel _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Malathion _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Baytex (Fenthion) _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Chlorpyrifos (Lorsban) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Parathion Ethyl _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Methidathion m _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
DEF _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Ethion _____	0.12	0.12	1.2	1.2	0.42	.....	0.25
Trithon _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Demeton-O _____	0.10	0.10	1.0	1.0	0.35	.....	0.21
Ethoprop (Mocap) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Tokuithion _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Phosfolan _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Fensulfothion _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Phosmet _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Azinphos Ethyl _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Fonofos _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Demeton-S _____	0.40	0.40	4.0	4.0	1.3	.....	0.79
Dimethoate _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Monocrotophos _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Chlorfenvinphos _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Leptophos _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
EPN _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Azinphos Methyl (Guthion) _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Famphur _____	0.25	0.25	2.5	2.5	0.83	.....	0.50
Coumaphos _____	0.25	0.25	2.5	2.5	0.83	.....	0.50

Table 3a. Quantitation Limits for Analysis of Organophosphorus Pesticides (EPA 8141).

a 100 mL → 100 mL ∴ DF = 1 (Routine Water)

b 10 g → 100 mL ∴ DF = 10 (Routine Soil)

c 1 L → 10 mL ∴ DF = .01 (Low Level Water)

d 30 g → 100 mL ∴ DF = 3.33 (Low Level Soil)

e Dependent on Matrix

f 1 L → 2 ml ∴ DF = .002 (Drinking Water)

PARAMETER	ECL-SC					
	LO STD CONC (mg/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e
Dichlorvos (DDVP) _____	.....	.....	.....	.....	.....	.....
Naled (Dibrom) _____	0.50	25	0.50	5.0	0.50	.....
Mevinphos (Phosdrin) _____	0.50	25	0.50	5.0	0.50	.....
Sulfotepp (Bladafume) _____	.....	.....	.....	.....	.....	.....
Thimet (Phorate) _____	0.50	25	0.50	5.0	0.50	.....
Diazinon _____	0.50	25	0.50	5.0	0.50	.....
Disyston (Disulfoton) _____	0.50	25	0.50	5.0	0.50	.....
Parathion methyl _____	0.50	25	0.50	5.0	0.50	.....
Ronnel _____	.....	.....	.....	.....	.....	.....
Malathion _____	0.50	25	0.50	5.0	0.50	.....
Baytex (Fenthion) _____	.....	.....	.....	.....	.....	.....
Chlorpyrifos (Lorsban) _____	0.50	25	0.50	5.0	0.50	.....
Parathion ethyl _____	0.50	25	0.50	5.0	0.50	.....
Methidathion _____	.....	.....	.....	.....	.....	.....
DEF _____	0.50	25	0.50	5.0	0.50	.....
Ethion _____	0.50	25	0.50	5.0	0.50	.....
Trithion _____	0.50	25	0.50	5.0	0.50	.....
Demeton-O _____	.....	.....	.....	.....	.....	.....
Ethoprop (Mocap) _____	.....	.....	.....	.....	.....	.....
Tokuthion _____	.....	.....	.....	.....	.....	.....
Phosfolan _____	.....	.....	.....	.....	.....	.....
Fensulfothion _____	.....	.....	.....	.....	.....	.....
Phosmet _____	.....	.....	.....	.....	.....	.....
Azinphos methyl _____	.....	.....	.....	.....	.....	.....
Fonofos _____	.....	.....	.....	.....	.....	.....
Demeton-S _____	.....	.....	.....	.....	.....	.....
Dimethoate _____	.....	.....	.....	.....	.....	.....
Monocrotophos _____	.....	.....	.....	.....	.....	.....
Chlorfenvinphos _____	.....	.....	.....	.....	.....	.....
Leptophos _____	.....	.....	.....	.....	.....	.....
EPN _____	.....	.....	.....	.....	.....	.....
Azinphos methyl (Guthion) _____	.....	.....	.....	.....	.....	.....
Famphur _____	.....	.....	.....	.....	.....	.....
Coumaphos _____	.....	.....	.....	.....	.....	.....
Bolstar (Sulprofos) _____	.....	.....	.....	.....	.....	.....
Stirophos (Tetrachlorovinphos) _____	.....	.....	.....	.....	.....	.....

Table 3b. Quantitation Limits for Analysis of Organophosphorus Pesticides (EPA 8140).

^a 1 L → 2 mL ∴ DF = .002 (Drinking Water)^b 10 g → 10 mL ∴ DF = 1.0 (Routine Soil)^c 1 L → 10 mL ∴ DF = .01 (Low Level Water)^d 10 g → 10 mL ∴ DF = 1.0 (Low Level Soil)^e Dependent on Matrix

PARAMETER	ECL					
	LO STD CONC (mg/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER & DRINKING WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER & SOIL ^e
2,6 Dinitro Phenol _____	2.5	0.25	2.5	25	0.82	.....
2,4 Dinitro Phenol _____	1.2	0.12	1.2	12	0.41	.....
2,5 Dinitro Phenol _____	1.2	0.12	1.2	12	0.41	.....
3,4 Dinitro Phenol _____	2.5	0.25	2.5	25	0.82	.....
4,6 Dinitro-o-Cresol (DNOC) _____	1.2	0.12	1.2	12	0.41	.....
4Nitrophenol _____	2.5	0.25	2.5	25	0.82	.....
Dinotramine) _____	1.2	0.12	1.2	12	0.41	.....
Fluchloralin (Basalin) _____	2.5	0.25	2.5	25	0.82	.....
Trifluralin _____	2.5	0.25	2.5	25	0.82	.....
Dinoseb _____	1.2	0.12	1.2	12	0.41	.....
Pendimethalin (Prowl) _____	2.5	0.25	2.5	25	0.82	.....
Dinocap-1 _____	2.5	0.25	2.5	25	0.82	.....
Dinocap-2 _____	2.5	0.25	2.5	25	0.82	.....

Table 4. Quantitation Limits for Analysis of Dinitroaromatics by HPLC (ECL 736).

^a 100 mL → 10 mL ∴ DF = 0.10 (Routine Water)^b 10 g → 10 mL ∴ DF = 1 (Routine Soil)^c 1 L → 10 mL ∴ DF = 0.01 (Low Level Water & Drinking Water)^d 30 g → 10 mL ∴ DF = 0.333 (Low Level Soil)^e Dependent on matrix

PARAMETERS	ECL					
	LO STD CONC (mg/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER & DRINKING WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e
2,4-D Acid _____	0.25	0.25	2.5	25	0.80	.....
2,4,5-T Acid _____	0.12	0.12	1.2	12	0.40	.....
2,4-DB Acid _____	0.25	0.25	2.5	25	0.80	.....
Silvex _____	0.12	0.12	1.2	12	0.40	.....
Dicamba _____	0.25	0.25	2.5	25	0.80	.....
Dichloroprop _____	0.25	0.25	2.5	25	0.80	.....
MCPA _____	25	25	250	2500	80	.....
Dalapon _____	0.25	0.25	2.5	25	0.80	.....
Dinoseb _____	0.25	0.25	2.5	25	0.80	.....
MCPP _____	25	25	250	2500	80	.....

Table 5. Quantitation Limits for Analysis of Chlorophenoxy Herbicides by GC.

^a 100 mL → 10 mL = (1)

1 ml of (1) → 10 ml ∴ DF = 1 (Routine Water)

^b 10 g → 10 mL = (1)

1 ml of (1) → 10ml ∴ DF = 10 (Routine Soil)

^c 1 L → 10 mL = (1)

1 ml of (1) → 10 ml ∴ DF = 0.1 (Low Level Water & Drinking Water)

^d 30 g → 10 mL = (1)

1 ml of (1) → 10ml ∴ DF = 3.33 (Low Level Soil)

^e Dependent on matrix

PARAMETER	<u>ECL</u>					
	LO STD CONC (mg/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	DRINKING WATER ^e (ug/l)
Aldicarb sulfone	0.50	50	0.25	5.0	0.17	5.0
Methomyl (Lannate)	0.50	50	0.25	5.0	0.17	5.0
3-Hydroxycarbofuran	0.50	50	0.25	5.0	0.17	5.0
Dioxacarb	0.50	50	0.25	5.0	0.17	5.0
Aldicarb	0.50	50	0.25	5.0	0.17	5.0
Baygon (Propoxur)	0.50	50	0.25	5.0	0.17	5.0
Carbofuran	0.50	50	0.25	5.0	0.17	5.0
Carbaryl (Sevin)	0.50	50	0.25	5.0	0.17	5.0
Methiocarb (Mesurol)	0.50	50	0.25	5.0	0.17	5.0
Promecarb	0.50	50	0.25	5.0	0.17	5.0

Table 6. Quantitation Limits for Analysis of Carbamates (ECL 734 REV.1).

^a 100 mL → 100 mL = (1)
 10 mL of (1) → 1mL ∴ DF = 0.10 (Routine Water)

^b 20 g → 100 mL = (2)
 10 mL of (2) → 1 mL ∴ DF = 0.50 (Routine Soil)

^c 1 L → 100 mL = (3)
 10 mL of (3) → 1 mL ∴ DF = .01 (Low Level Water & Drinking Water)

^d 30 g → 100 mL = (4)
 10 mL of (4) → 1mL ∴ DF = 0.333 (Low Level Soil)

PARAMETER	<u>ECL</u>				
	LO STD CONC (ug/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (ug/kg)	LO WATER ^c (ug/l)	DRINKING WATER ^d (ug/l)
EDB	1.0	0.060	10	0.060	0.020
DBCP	0.50	0.030	5.0	0.030	0.010

Table 7. Quantitation Limits for Analysis of EDB and DBCP (EPA 8011).

^a 35 mL → 2 mL ∴ DF = 0.06 (Routine Water)

^b 10 g → 100 mL ∴ DF = 10 (Routine Soil)

^c 35 mL → 2 mL ∴ DF = 0.06 (Low Level Water)

^d 100 mL → 2 mL ∴ DF = 0.02 (Drinking Water)

PARAMETER	<u>ECL</u>			
	LO STD CONC ug/l	WATER ^a ug/l	SOIL ^b ug/kg	DRINKING WATER ^c ug/l
Tetrachlorophenol	100	100	2000	2
Pentachlorophenol	100	100	2000	2

Table 8. Quantitation Limits for Analysis of Chlorophenols (ECL 782)

^a 100 mL → 50 mL; 5 mL deriv. → 50 mL conc. → 10 mL ∴ DF = 1 (Water)

^b 10 g → 100 mL; 5 mL deriv. → 50 mL conc. → 10 mL ∴ DF = 20 (Soil)

^c 1 L → 50 mL; 5 mL deriv. → 50 mL conc. → 2 mL ∴ DF = 0.02 (Drinking Water)

Note: Method ECL 782 is recommended when low level quantitation limits are required for these 2 compounds only.

PARAMETER	<u>ECL</u>						
	LO STD CONC (ug/l)	ROUTINE WATER ^a (ug/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e	DRINKING WATER ^f (ug/l)
Naphthalene _____	30	30	0.3	3.0	0.1	.....	0.3
Acenaphthylene _____	60	60	0.6	6.0	0.2	.....	0.6
Acenaphthene _____	40	40	0.4	4.0	0.13	.....	0.4
Fluorene _____	120	120	1.2	12.0	0.4	.....	1.2
Phenanthrene _____	10	10	0.1	1.0	0.03	.....	0.1
Anthracene _____	2	2	0.02	0.2	0.01	.....	0.02
Fluoranthene _____	10	10	0.1	1.0	0.03	.....	0.1
Pyrene _____	20	20	0.2	2.0	0.07	.....	0.20
1,2-Benzanthracene _____	5	5	0.05	0.5	0.016	.....	0.05
Chrysene _____	5	5	0.05	0.5	0.016	.....	0.05
Benz(b)fluoranthene _____	6	6	0.06	0.6	0.02	.....	0.06
Benz(k)fluoranthene _____	1	1	0.01	0.1	0.003	.....	0.01
Benz(a)pyrene _____	2	2	0.02	0.2	0.01	.....	0.02
Indeno(1,2,3-c,d)pyrene _____	40	40	0.4	4.0	0.13	.....	0.40
1,2,5,6-Dibenzoanthracene _____	5	5	0.05	0.5	0.016	.....	0.05
1,12-Benzoperylene _____	40	40	0.4	4.0	0.13	.....	0.4

Table 9. HPLC Quantitation Limits for Analysis of Polynuclear Aromatic Hydrocarbons (EPA 8310).

^a 100 mL → 100 mL .. DF = 1.0 (Routine Water)^b 10 g → 100 mL .. DF = 10.0 (Routine Soil)^c 1 L → 100 mL DF = 0.1 (Low Level Water)^d 30 g → 100 mL DF = 3.33 (Low Level Soil)^e Dependent on Matrix^f 1 L → 10 mL DL = 0.01 (Drinking Water)

PARAMETER	<u>ECL</u>						
	LO STD CONC (ug/mL)	ROUTINE WATER ^a (ug/mL)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/mL)	LO SOIL ^d (mg/kg)	HI WATER&SOIL ^e	DRINKING WATER ^f (ug/l)
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine(HMX) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
1,3,5-trinitrobenzene(1,3,5-TNB) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
Methyl 1,2,4,6-trinitrophenylnitramine (Tetryl) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
Nitrobenzene (NB) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
2,4,6-Trinitrotoluene (2,4,6-TNT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
4-Amino-2,6-dinitrotoluene (4-Am-DNT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
2-Amino-4,6-dinitrotoluene (4-Am-DNT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
2,4-Dinitrotoluene (2,4-DNT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
2,6-Dinitrotoluene (2,6-DNT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
2-Nitrotoluene(2-NT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
3-Nitrotoluene(3-NT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5
4-Nitrotoluene(4-NT) _____	0.25	0.25	2.5	0.025	0.83	.....	2.5

^a 100 mL → 100 mL .. DF = 1.0 (Routine Water)^b 10 g → 100 mL .. DF = 10.0 (Routine Soil)^c 1 L → 100 mL DF = 0.1 (Low Level Water)^d 30 g → 100 mL DF = 3.33 (Low Level Soil)^e Dependent on Matrix^f 1 L → 10 mL DL = 0.01 (Drinking Water)

Table 10. Quantitation Limits for Analysis of Nitroaromatics and Nitramines (EPA 8330)

PARAMETER	<u>ECL</u>					
	LO STD CONC (ug/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (ug/kg)	HI WATER&SOIL ^e
Chloromethane	5.0	0.25	0.62	5.0	5.0	.....
Bromomethane	5.0	0.25	0.62	5.0	5.0	.....
Vinyl chloride	5.0	0.25	0.62	5.0	5.0	.....
Chloroethane	5.0	0.25	0.62	5.0	5.0	.....
Methylene Chloride	5.0	0.25	0.62	5.0	5.0	.....
Trichlorofluoromethane	5.0	0.25	0.62	5.0	5.0	.....
1,1-Dichloroethene	5.0	0.25	0.62	5.0	5.0	.....
1,1-Dichloroethane	5.0	0.25	0.62	5.0	5.0	.....
trans-1,2-Dichloroethene	5.0	0.25	0.62	5.0	5.0	.....
Chloroform	5.0	0.25	0.62	5.0	5.0	.....
1,2-Dichloroethane	5.0	0.25	0.62	5.0	5.0	.....
1,1,1-Trichloroethane	5.0	0.25	0.62	5.0	5.0	.....
Carbon tetrachloride	5.0	0.25	0.62	5.0	5.0	.....
Bromodichloromethane	5.0	0.25	0.62	5.0	5.0	.....
1,2-Dichloropropane	5.0	0.25	0.62	5.0	5.0	.....
trans-1,3-Dichloropropene	5.0	0.25	0.62	5.0	5.0	.....
Trichloroethene	5.0	0.25	0.62	5.0	5.0	.....
Benzene	5.0	0.25	0.62	5.0	5.0	.....
Dibromochloromethane	5.0	0.25	0.62	5.0	5.0	.....
1,1,2-Trichloroethane	5.0	0.25	0.62	5.0	5.0	.....
cis-1,3-Dichloropropene	5.0	0.25	0.62	5.0	5.0	.....
2-Chloroethylvinyl ether	5.0	0.25	0.62	5.0	5.0	.....
Bromoform	5.0	0.25	0.62	5.0	5.0	.....
1,1,2,2-Tetrachloroethane	5.0	0.25	0.62	5.0	5.0	.....
Tetrachloroethene	5.0	0.25	0.62	5.0	5.0	.....
Toluene	5.0	0.25	0.62	5.0	5.0	.....
Chlorobenzene	5.0	0.25	0.62	5.0	5.0	.....
Ethylbenzene	5.0	0.25	0.62	5.0	5.0	.....
1,3-Dichlorobenzene	.....	.....	.....	.....	.....	.....
1,2-Dichlorobenzene	.....	.....	.....	.....	.....	.....
1,4-Dichlorobenzene	.....	.....	.....	.....	.....	.....
Acetone	20	1.0	2.5	20	20	.....
2-Butanone	20	1.0	2.5	20	20	.....
Carbon disulfide	5.0	0.25	0.62	5.0	5.0	.....
cis 1,3-Dichloropropene	5.0	0.25	0.62	5.0	5.0	.....
2-Hexanone	20	1.0	2.5	20	20	.....
4-Methyl-2-pentanone	20	1.0	2.5	20	20	.....
Styrene	5.0	0.25	0.62	5.0	5.0	.....
Vinyl acetate	20	1.0	2.5	20	20	.....
Xylene (ortho or para)	5.0	0.25	0.62	5.0	5.0	.....
Xylene (meta)	5.0	0.25	0.62	5.0	5.0	.....

^a 2 mL → 100 mL = (1)5ml of (1) ∴ Dilution Factor **DF = 50.0** (Routine Water)^b 4 g → 10 mL = (1)0.1ml of (1) to 5ml ∴ Dilution Factor **DF = 125** (Routine Soil)^c Direct Purge ∴ **DF = 1** (Low Level Water)^d 5 g → 5 mL ∴ **DF = 1** (Low Level Soil) GC/MS purge and trap system is not currently equipped with a heated purging vessel. Method 8260 is being developed to handle low level soil samples.^e Dependent on Matrix

Table 11 a. Quantitation Limits for Analysis of GC/MS for Volatile Organics (EPA 8240).

PARAMETER	<u>ECL-SC</u>					
	LO STD CONC (ug/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (ug/kg)	HI WATER&SOIL ^e
Methylene chloride _____	5.0	0.25	5.0	5.0	5.0	.....
Freon 113 _____	5.0	0.25	5.0	5.0	5.0	.....
Chloroform _____	5.0	0.25	5.0	5.0	5.0	.....
1,1,1-Trichloroethane _____	5.0	0.25	5.0	5.0	5.0	.....
1,2-Dichloroethane _____	5.0	0.25	5.0	5.0	5.0	.....
Benzene _____	5.0	0.25	5.0	5.0	5.0	.....
Carbon Tetrachloride _____	5.0	0.25	5.0	5.0	5.0	.....
Trichloroethylene _____	5.0	0.25	5.0	5.0	5.0	.....
Toluene _____	5.0	0.25	5.0	5.0	5.0	.....
Perchloroethylene _____	5.0	0.25	5.0	5.0	5.0	.....
Chloroethylene _____	5.0	0.25	5.0	5.0	5.0	.....
Ethylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
m & p-Xylene _____	5.0	0.25	5.0	5.0	5.0	.....
Styrene _____	5.0	0.25	5.0	5.0	5.0	.....
o-Xylene _____	5.5	0.25	5.0	5.0	5.0	.....
Cumene _____	5.0	0.25	5.0	5.0	5.0	.....
0-chlorotoluene _____	5.0	0.25	5.0	5.0	5.0	.....
n-Propyl Benzene _____	5.0	0.25	5.0	5.0	5.0	.....
p-Chlorotoluene _____	5.0	0.25	5.0	5.0	5.0	.....
1,3,5-Trimethylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
t-Butylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2,4-Trimethylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
1,3-Dichlorobenzene _____	5.0	0.25	5.0	5.0	5.0	.....
sec-Butylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
1,4-Dichlorobenzene _____	5.0	0.25	5.0	5.0	5.0	.....
p-Cymene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2-Dichlorobenzene _____	5.0	0.25	5.0	5.0	5.0	.....
n-Butylbenzene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2,4-Ethyl benzene _____	5.0	0.25	5.0	5.0	5.0	.....
Naphthalene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2,3-Trichlorobenzene _____	5.0	0.25	5.0	5.0	5.0	.....
Acetone _____	40	2.0	400	40	40	.....
Methyl isobutyl Ketone _____	40	2.0	400	40	40	.....
Methyl Ethyl Ketone _____	40	2.0	400	40	40	.....
1,1-Dichloroethylene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2-Dichloroethylene (T) _____	5.0	0.25	5.0	5.0	5.0	.....
1,1,Dichloroethane _____	5.0	0.25	5.0	5.0	5.0	.....
1,2-Dichloroethylene @ _____	5.0	0.25	5.0	5.0	5.0	.....
1,1-Dichloropropene _____	5.0	0.25	5.0	5.0	5.0	.....
1,2-Dichloropropene _____	5.0	0.25	5.0	5.0	5.0	.....
Bromodichloromethane _____	5.0	0.25	5.0	5.0	5.0	.....
1,3-Dichloropropene @ _____	5.0	0.25	5.0	5.0	5.0	.....
1,3-Dichloropropene (T) _____	5.0	0.25	5.0	5.0	5.0	.....

^a 2 mL → 100 mL = (1)5ml of (1) ∴ Dilution Factor **DF = 50.0** (Routine Water)^b 10 g → 10 mL = (1)

50 uL of (1) to 50 mL = (2)

25 mL of (2) ∴ Dilution Factor **DF = 1000** (Routine Soil)^c Direct Purge ∴ **DF = 1** (Low Level Water)^d 5 g → 5 mL ∴ **DF = 1** (Low Level Soil)^e Dependent on Matrix

Table 11 b. Quantitation Limits for Analysis of GC/MS for Volatile Organics (EPA 8260) Cont..

PARAMETER	<u>ECL-SC</u>					
	LO STD CONC (ug/l)	ROUTINE WATER ^a (mg/l)	ROUTINE SOIL ^b (mg/kg)	LO WATER ^c (ug/l)	LO SOIL ^d (ug/kg)	HI WATER&SOIL ^e
1,1-2-Trichloroethane	5.0	0.25	5.0	5.0	5.0	.....
1,3-Dichloropropane	5.0	0.25	5.0	5.0	5.0	.....
Dibromochloromethane	5.0	0.25	5.0	5.0	5.0	.....
Ethylenedibromide	5.0	0.25	5.0	5.0	5.0	.....
1,1,1,2-Tetrachloroethane	5.0	0.25	5.0	5.0	5.0	.....
Bromoform	5.0	0.25	5.0	5.0	5.0	.....
1,1,2,2-Tetrachloroethane	5.0	0.25	5.0	5.0	5.0	.....
1,2,3-Trichloropropane	5.0	0.25	5.0	5.0	5.0	.....
Hexachlorobutadiene	5.0	0.25	5.0	5.0	5.0	.....
Vinyl Chloride	5.0	0.25	5.0	5.0	5.0	.....

^a 2 mL → 100 mL = (1)5mL of (1) ∴ Dilution Factor **DF = 50.0** (Routine Water)^b 10 g → 10 mL = (1)

50 uL of (1) to 50 mL = (2)

25 mL of (2) ∴ Dilution Factor **DF = 1000** (Routine Soil)^c Direct Purge ∴ **DF = 1** (Low Level Water)^d 5 g → 5 mL ∴ **DF = 1** (Low Level Soil)^e Dependent on Matrix

Table 11 b. Quantitation Limits for Analysis of GC/MS for Volatile Organics (EPA 8260).

TABLE 12 ESTIMATED QUANTITATION LIMITS FOR GC/MS ANALYSIS OF SEMIVOLATILE ORGANICS (EPA 8270) at ECL and ECL-SC^{1,2}

Parameters	CAS No.	Standard ³ (µg/mL)	Low Water ^{4a} (µg/L)	Routine Water ^{4b} (mg/L)	Low Soil ^{5a} (mg/Kg)	(mg/Kg)
acenaphthene	83-32-9	5	5	0.25	0.67	5
acenaphthylene	208-96-8	5	5	0.25	0.67	10
aniline	62-53-3	10	10	0.5	1.33	5
anthracene	120-12-7	5	5	0.25	0.67	5
benz[a]anthracene	56-55-3	5	5	0.25	0.67	5
benzo(a)pyrene	50-32-8	5	5	0.25	0.67	5
benzo(b)fluoranthene	205-99-2	5	5	0.25	0.67	5
benzo(g,h,i)perylene	191-24-2	5	5	0.25	0.67	5
benzo(k)fluoranthene	207-08-9	5	5	0.25	0.67	10
benzyl alcohol	100-51-6	10	10	0.5	1.33	5
bis(2-chloroethoxy)methane	111-91-1	5	5	0.25	0.67	5
bis(2-chloroethyl)ether	111-44-4	5	5	0.25	0.67	5
bis(2-chloroisopropyl)ether	108-60-1	5	5	0.25	0.67	5
bis(2-ethylhexyl)phthalate	117-81-7	5	5	0.25	0.67	5
4-bromophenyl phenyl ether	101-55-3	5	5	0.25	0.67	5
buty benzyl phthalate	85-68-7	5	5	0.25	0.67	5
carbazole	86-74-8	5	5	0.25	0.67	10
4-chloro-3-methylphenol	59-50-7	10	10	0.5	1.33	10
4-chloroaniline	106-47-8	10	10	0.5	1.33	5
2-chloronaphthalene	91-58-7	5	5	0.25	0.67	10
2-chlorophenol	95-57-8	10	10	0.5	1.33	5
4-chlorophenyl phenyl ether	7005-72-3	5	5	0.25	0.67	5
chrysene	218-01-9	5	5	0.25	0.67	10
dibenz[a,h]anthracene	53-70-3	10	10	0.5	1.33	10
dibenzofuran	132-64-9	10	10	0.5	1.33	5
di-n-butyl phthalate	84-74-2	5	5	0.25	0.67	5
1,2-dichlorobenzene	95-50-1	5	5	0.25	0.67	5
1,3-dichlorobenzene	541-73-1	5	5	0.25	0.67	5
1,4-dichlorobenzene	106-46-7	5	5	0.25	0.67	20
3,3'-dichlorobenzidine	91-94-1	20	20	1	2.67	10
2,4-dichlorophenol	120-83-2	10	10	0.5	1.33	5
diethyl phthalate	84-66-2	5	5	0.25	0.67	5
dimethyl phthalate	131-11-3	5	5	0.25	0.67	10
2,4-dimethylphenol	105-67-9	10	10	0.5	1.33	50
4,6-dinitro-2-methylphenol	534-52-1	50	50	2.5	6.67	50
2,4-dinitrophenol	51-28-5	50	50	2.5	6.67	5
2,4-dinitrotoluene	121-14-2	5	5	0.25	0.67	5
2,6-dinitrotoluene	606-20-2	5	5	0.25	0.67	5
di-n-octyl phthalate	117-84-0	5	5	0.25	0.67	5
fluoranthene	206-44-0	5	5	0.25	0.67	5
fluorene	86-73-7	5	5	0.25	0.67	5
		Lowest			Routine Soil^{5b}	

TABLE 12 ESTIMATED QUANTITATION LIMITS FOR GC/MS ANALYSIS OF SEMIVOLATILE ORGANICS (EPA 8270) at ECL and ECL-SC (con't)

Parameter	CAS No.	Lowest Standard ³ ($\mu\text{g/mL}$)	Low Water ^{4a} ($\mu\text{g/L}$)	Routine Water ^{4a} (mg/L)	Low Soil ^{5a} (mg/Kg)	Routine Soil ^{5b} (mg/Kg)
hexachlorobenzene	118-74-1	5	5	0.25	0.67	5
hexachlorobutadiene	87-68-3	5	5	0.25	0.67	5
hexachlorocyclopentadiene	770-47-4	5	5	0.25	0.67	5
hexachloroethane	67-72-1	5	5	0.25	0.67	5
indeno(1,2,3-c,d)pyrene	193-39-5	5	5	0.25	0.67	5
isophorone	78-59-1	5	5	0.25	0.67	5
2-methylnaphthalene	91-57-6	5	5	0.25	0.67	5
2-methylphenol	95-48-7	10	10	0.5	1.33	10
(4 & 3)-methylphenol	106-44-5	10	10	0.5	1.33	10
naphthalene	91-20-3	5	5	0.25	0.67	5
nitobenzene	98-95-3	5	5	0.25	0.67	5
2-nitroaniline	88-74-4	20	20	1	2.67	20
3-nitroaniline	99-09-2	20	20	1	2.67	20
4-nitroaniline	100-01-6	20	20	1	2.67	20
2-nitrophenol	88-75-5	10	10	0.5	1.33	10
4-nitrophenol	100-02-7	50	50	2.5	6.67	50
n-nitrosodimethylamine ⁶	62-75-9	10	10	0.5	1.33	10
n-nitrosodiphenylamine	86-30-6	5	5	0.25	0.67	5
n-nitrosodipropylamine	621-64-7	5	5	0.25	0.67	5
pentachlorophenol	87-86-5	50	50	2.5	6.67	50
phenanthrene	85-01-8	5	5	0.25	0.67	5
phenol	108-95-2	10	10	0.5	1.33	10
pyrene	129-00-0	5	5	0.25	0.67	5
pyridine ⁶	110-86-1	5	5	0.25	0.67	5
1,2,4-trichlorobenzene	120-82-1	5	5	0.25	0.67	5
2,4,5-trichlorophenol	95-95-4	20	20	1	2.67	20
2,4,6-trichlorophenol	88-06-2	10	10	0.5	1.33	10

Footnotes:

¹..... Table 12 lists semivolatile organic analytes that are routinely analyzed at both ECL laboratories with GC/MS Method 8270. The estimated quantitation limits (EQLs) serve as a guide for the proper selection of a determinative method. The decision should be based on the method's ability to meet quantitation limits required by the analytical objective (i.e., regulatory limits, project specific quantitation limits, etc.). Generally, mass spectrometry is more specific for qualitative identification, but it is often less sensitive than determinative methods that are based on compound specific detectors (i.e., ECD for chlorinated semivolatile organics, HPLC/UV for polynuclear aromatic hydrocarbons, etc.). Therefore when the quantitation limit requirements exceed those achievable with Method 8270, it may be necessary to employ a more sensitive determinative method and confirmed with second chromatographic column or detector.

²ECL's quantitation limit (QL) is defined as the lowest standard concentration used in the method's calibration table multiplied by the sample's dilution factor and a matrix factor.

³The Estimated Quantitation Limits (EQLs) are highly matrix -dependent. The EQLs listed above are provided for guidance and may not always be achievable. For low level soil and water samples, EQLs are estimated assuming minimal chemical and physical interferences.

⁴EQLs for water samples are estimated using extraction procedure of "EPA Method 3510 -Separatory Funnel Extraction"

- a) For low water samples, EQLs assume a one liter volume of sample is extracted and concentrated to a final volume of one milliliter.
- b) For routine water samples, 200 milliliters of a water sample is extracted and concentrated to a final volume of ten milliliters.

⁵EQLs for soil samples are estimated using extraction procedure of "Method 3540 - Soxhlet Extraction." EQLs are estimated based on wet weight therefore EQLs will be higher if based on dried weight basis.

- a) For low soil samples, EQLs assume a thirty grams sample soil sample is extracted to a final volume of four milliliters.
- b) For routine soil samples, ten grams of soil is extracted and concentrated to a final volume of ten milliliters

⁶Pyridine and n-nitrosodimethylamine are not routine target analytes. These are determined upon special request and should be approved by ECL prior to sample submittal. For semivolatile organic analytes not listed above, please contact ECL's GCMS Laboratories.

PARAMETER	<u>ECL</u>		<u>ECL-SC</u>		
	WATER ^a (ug/l)	SOIL ^a (ug/kg)	WATER ^b (mg/l)	LO SOIL ^b (mg/kg)	HI SOIL ^b (mg/kg)
Ag-Silver	10	50	10	1.0	5.0
		0	30	1.0	50
		0	100	1.0	50
Ba-Barium		2	10	5.0	50
Be-Beryllium		2	5	0.10	5.0
Cd-Cadmium		3	10	0.10	5.0
Co-Cobalt		10	50	5.0	50
Cr-Chromium		15	80	5.0	50
Cu-Copper		20	100	5.0	50
Hg-Mercury		.....	.....	.....	.....
Mo-Molybdenum		10	100	1.0	5.0
Ni-Nickel		10	50	5.0	50
Pb-Lead		30	100	5.0	50
Sb-Antimony		30	150	5.0	50
Se-Selenium		40	150	0.10	5.0
Tl-Thallium		50	200	1.0	50
V-Vanadium		10	50	5.0	50
Zn-Zinc		20	100	1.0	5.0

^a Thermo Jarrel Ash (Simultaneous ICP)

^b Jobin-Yvon JY-50 (Simultaneous ICP)

Table 13. Method Detection Limits for Analysis of Metals (EPA 6010).

PARAMETER	<u>ECL</u>		<u>ECL-SC</u>		
	LO STD CONC (ug/l)	LO WATER ^a (ug/l)	LO SOIL ^b (mg/kg)	WATER (ug/l)	LO SOIL ^c (mg/kg)
Ag-Silver _____	0.50	0.50	0.025	0.50	1.0
As-Arsenic _____	5.0	5.0	0.25	5.0	.....
Ba-Barium _____	2.0	2.0	0.10	2.0	.....
Be-Beryllium _____	0.20	0.20	0.010	0.20	0.50
Cd-Cadmium _____	0.10	0.10	0.0050	0.10	0.50
Co-Cobalt _____	1.0	1.0	0.050	1.0	5.0
Cr-Chromium _____	1.0	1.0	0.0010	1.0	5.0
Cu-Copper _____	1.0	1.0	0.050	1.0	5.0
Mo-Molybdenum _____	1.0	1.0	0.050	1.0	5.0
Ni-Nickel _____	1.0	1.0	0.050	1.0	5.0
Pb-Lead _____	5.0	5.0	0.25	1.0	5.0
Sb-Antimony _____	3.0	3.0	0.15	3.0	.....
Se-Selenium _____	3.0	3.0	0.15	3.0	.....
Tl-Thallium _____	1.0	1.0	0.050	1.0	5.0
V-Vanadium _____	4.0	4.0	0.20	4.0	5.0
Zn-Zinc _____	.....	.....	.....	0.50	1.0

^a 100 mL → 100 mL ∴ Dilution Factor (DF) = 1^b 2 g → 100 mL ∴ Dilution Factor (DF) = 50^c Flame Atomic Absorption

Table 14. Quantitation Limits for Analysis of Metals (EPA 7000 series Furnace methods).

PARAMETER	<u>ECL</u>		<u>ECL-SC</u>	
	LO STD CONC. (ug/l)	LO WATER ^a (ug/l)	LO SOIL ^b (mg/kg)	WATER (mg/l)
Hg-Mercury	0.50	0.50	0.05	0.01

^a 100 mL → 100 mL ∴ Dilution Factor (**DF**) = 1 (EPA 7470)

^b 1 g → 100 mL ∴ Dilution Factor (**DF**) = 100 (EPA 7471)

Table 15. Quantitation Limits for Analysis of Mercury (Cold Vapor).

PARAMETER	<u>ECL</u>		<u>ECL-SC</u>	
	LO STD CONC. (mg/l)	LO WATER ^a (mg/l)	LO SOIL ^b (mg/kg)	WATER (ug/l)
Fluoride	0.50	0.50	5.0	.....
Chloride	0.50	0.50	5.0	.....
Sulfate	1.5	1.5	15	.....
Nitrate	1.5	1.5	15	.....
Phosphate	0.20	0.20	2.0	.....

^a 100 mL → 100 mL ∴ Dilution Factor (**DF**) = 1

^b 10 g → 100 mL ∴ Dilution Factor (**DF**) = 10

Table 16. Quantitation Limits for Analysis of Anions (ECL 960).

PARAMETER	<u>ECL</u>		<u>ECL SC</u>	
	LO STD CONC (mg/l)	WATER ^a (mg/l)	LO STD CONC (mg/l)	SOIL ^b (mg/kg)
Cyanide	0.20	0.10	0.50	2.5

^a 500 mL → 250 mL ∴ Dilution Factor (**DF**) = 0.5

^b 50 g → 250 mL ∴ Dilution Factor (**DF**) = 5

Table 17. Quantitation Limits for Analysis of Cyanide (EPA 9010).